What is claimed is:

Sub a1

1. A non-volatile recording medium for recording a digital audio signal that has been compressed at a compression rate selectable in a predetermined range and block-segmented in a predetermined data length,

wherein the predetermined data length of which the digital audio data is block-segmented is decided in consideration of the maximum recordable time and the data length of which the digital audio signal is encrypted.

2. The non-volatile record medium as set forth in claim 1,

wherein the recordable capacity of the non-volatile record medium is 64 Mbytes.

3. The non-volatile record medium as set forth in claim 1,

wherein the predetermined range of the compression ratio is from 1/8 to 1/43.

4. The non-volatile record medium as set forth in claim 1,

wherein the data length of which the digital audio data is encoded is a multiple of 8 or 16.

5. The non-volatile record medium as set forth in claim 1,

wherein the maximum recordable time is a time period of which a data file of around 60 minutes or around 74 minutes is recorded.

6. The non-volatile record medium as set forth in claim 1,

wherein the non-volatile record medium is a flash memory.

7. The non-volatile record medium as set forth in claim 6,

wherein the data length of which the digital audio signal is block-segmented is selected in consideration of the record unit of the flash memory.

8. A recording method for recording a digital audio signal that has been compressed at a compression rate selectable in a predetermined range and block-segmented in a predetermined data length to a non-volatile record medium, comprising the steps of:

deciding the predetermined data length of which the digital audio signal is block-segmented corresponding to the maximum recordable time and the data length of which the digital audio signal is encrypted;

block-segmenting the encrypted digital audio signal corresponding to the decided predetermined data length; and

recording the block-segmented digital audio signal to the non-volatile record medium.

9. The recording method as set forth in claim 8,

wherein the recordable capacity of the non-volatile record medium is 64 Mbytes.

10. The recording method as set forth in claim 8, wherein the predetermined range of the compression ratio is from 1/8 to 1/43.

11. The recording method as set forth in claim 8, wherein the data length of which the digital audio data is encoded is a multiple of 8 or 16.

12. The recording method as set forth in claim 8, wherein the maximum recordable time is a time period of which a data file of around 60 minutes or around 74 minutes is recorded.

13. The recording method as set forth in claim 8, wherein the non-volatile record medium is a flash memory.

14. The recording method as set forth in claim 13,

wherein the data length of which the digital audio signal is block-segmented is selected in consideration of the record unit of the flash memory.

15. A recording apparatus for recording a digital audio signal that has been compressed at a compression rate selectable in a predetermined range and block-segmented in a predetermined data length to a non-volatile record medium, comprising:

memory means having a table for deciding the predetermined data length of which the digital audio signal is block-segmented corresponding to the maximum recordable time and the data length of which the

compressed digital audio signal is encrypted;

selecting means for selecting a predetermined compression rate in the predetermined range;

deciding means for deciding the predetermined data length of which the encrypted digital audio signal is block-segmented with reference to the table of said memory means corresponding to the predetermined compression rate selected by said selecting means;

block-segmenting means for block-segmenting the encrypted digital audio signal corresponding to the predetermined data length decided by said deciding means; and

recording means for recording the digital audio signal block segmented by said block segmenting means to the non-volatile record medium.

16. The recording apparatus as set forth in claim 15,

wherein the recordable capacity of the non-volatile record medium is 64 Mbytes.

17. The recording apparatus as set forth in claim 15,

wherein the predetermined range of the compression ratio is from 1/8 to 1/43.

18. The recording apparatus as set forth in claim 15,

wherein the data length of which the digital audio data is encoded is a multiple of 8 or 16.

19. The recording apparatus as set forth in claim 15,

wherein the maximum recordable time is a time period of which a data file of around 60 minutes or around 74 minutes is recorded.

20. The recording apparatus as set forth in claim 15,

wherein the non-volatile record medium is a flash memory.

21. The recording apparatus as set forth in claim 20,

wherein the data length of which the digital audio signal is block-segmented is selected in consideration of the record unit of the flash memory.